

Angiotensin I Converting Enzyme Inhibitor

PRODUCT DESCRIPTION

Angiotensin I Converting Enzyme Inhibitor is a 13-amino-acid A peptide related to the renin-angiotensin system (RAS), which plays a critical role in blood pressure regulation, fluid and electrolyte balance, and cardiovascular homeostasis. This peptide is used in cardiovascular and renal research to study angiotensin receptor (AT1R/AT2R) signaling, vasoconstriction/vasodilation pathways, and the development of antihypertensive therapeutics.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2441
Molecular Weight	1182.4108 Da
Molecular Formula	C56H91N15O13
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

{Pyr}GLPPRPKIPP

Three-Letter Code:

H-{Pyr}-Gly-Leu-Pro-Pro-Arg-Pro-Lys-Ile-Pro-Pro-OH

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Angiotensin Receptors (AT1R/AT2R)
Research Area	Cardiovascular
Sub-category	Renin-Angiotensin System

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request